

## 西藏蔓龙胆属(龙胆科)二新种\*

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### TWO NEW SPECIES OF *CRAWFURDIA* (GENTIANACEAE) FROM XIZANG (TIBET), CHINA

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**关键词** 蔓龙胆属; 林芝蔓龙胆; 裂膜蔓龙胆; 新种

#### 1 林芝蔓龙胆 新种 图 1: 1~4

*Crawfurdia nyingchiensis* K. Yao et W. L. Cheng, sp. nov. TYPE: Xizang (Tibet 西藏), Nyingchi (林芝), in coniferous forest, alt. 2870 m, 1994-09-24, Tsangpo River Exped. 0876 (holotype, XZE-Herb. Inst. Plateau Ecol. Tibet; isotype, NAS). Fig. 1: 1~4

*A. C. speciosa* Wall. foliis magnis 7~12 mm longis 4.5~6.5 mm latis, pedicello brevi 2~8 mm longo, lobis calycis lanceolatis vel ovato-lanceolatis 3.5~6 mm longis, anthera brevi 3 mm longa differt.

Herba perennis volubilis, omnino glabra. Caulis flavo-viridis, purpureo-maculatus, internodiis 12~18 cm longis. Folia caulina ovata, 7~12 cm longa, 4.5~6.5 cm lata, apice caudato-acuminata, basi subcordata, margine undulata; nervi basales (3) 5~7, petioli 1.5~2.5 cm longi, basi amplexicaules. Cyma axillaris, pedunculata; pedunculus 0.5~1 cm longus; pedicelli 2~8 mm longi, bracteolati; bracteolae lanceolatae, usque ad 1.2 cm longae vel nullae; calyx flavo-viridis, tubo 1~1.3 cm longo, lobis lanceolatis vel ovato-lanceolatis, 3.5~6 mm longis, 1~2 mm latis, sinibus truncatis intus basi lamellis angustis instructis; corolla purpurea, campanulata, 3.5~4.7 cm longa, lobis ovato-triangularibus 4~6 mm longis 5~7 mm latis, plicis semiorbiculatis c. 1 mm longis c. 2 mm latis, margine leviter undulato; stamina medio tubi corollae inserta, filamentis lanceolatis 2~3 mm latis, antheris 3 mm longis; ovarium anguste ellipsoideum, 1.2~1.4 cm longum, stipite 0.8~1.2 cm longo basi 5-glandulifero; stylus filiformis, 4~5 mm longus; stigma oblongum, 2-lobutum. Florescens in Sept.

**Xizang** (Tibet 西藏): Nyingchi (林芝), in coniferous forest, alt. 2920 m, W. L. Zheng

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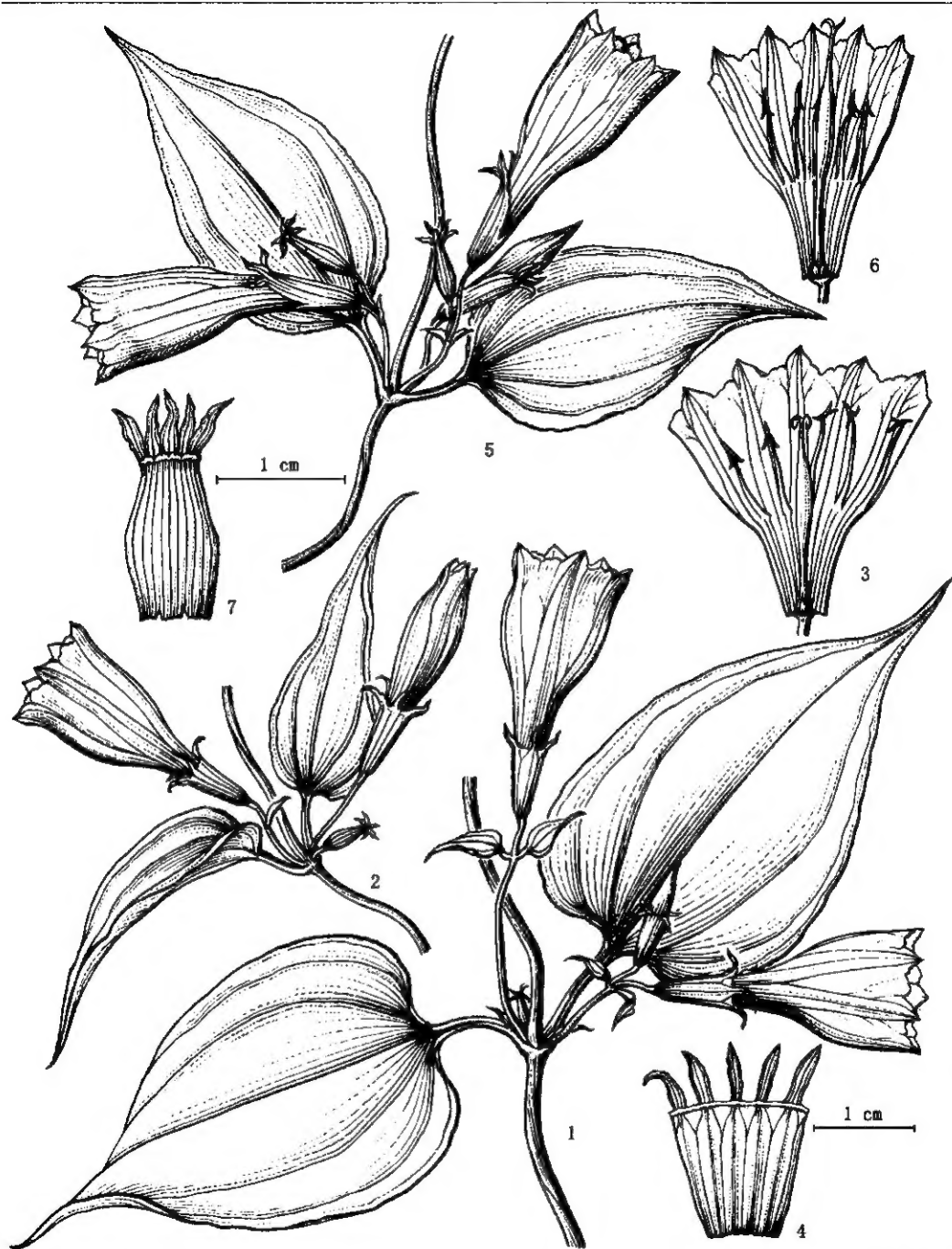


图1 1~4. 林芝蔓龙胆 1. 下部花枝; 2. 上部花枝; 3. 花冠纵剖; 4. 花萼腹面(放大1倍)。5~7. 裂膜蔓龙胆 5. 花枝; 6. 花冠纵剖; 7. 花萼腹面(放大1倍)。(张海燕 绘)

Fig. 1 1~4. *Crawfurdia nyingchiensis* K. Yao et W. L. Cheng 1. Lower flowering branch; 2. Upper flowering branch; 3. Corolla opened; 4. Inside of calyx ( $\times 2$ ). 5~7. *Crawfurdia lobtilimba* W. L. Cheng 5. Flowering branch; 6. Corolla opened; 7. Inside of calyx ( $\times 2$ ).

(郑维列)0628; Bomi(波密), alt. 2600 m, 1994-10-18, Tsangpo River Exped. 1189.

多年生缠绕草本,全株无毛。茎淡黄绿色,稍具紫色斑点,节间长12~18 cm。茎生

叶卵形,长 7~12 cm,宽 4.5~6.5 cm,先端尾状渐尖,基部浅心形,边缘波状,叶脉(3)5~7,叶柄长 1.5~2.5 cm,抱茎。聚伞花序腋生,花序梗长 0.5~1 cm,花梗长 2~8 mm;小苞片披针形,长 1.2 cm,或无;花萼淡黄绿色,萼筒长 1~1.3 cm,裂片披针形或卵状披针形,长 3.5~6 mm,宽 1~2 mm,弯缺截形,基部具狭的萼内膜;花冠紫色,钟状,长 3.5~4.7 cm,裂片卵状三角形,长 4~6 mm,宽 5~7 mm,褶半圆形,长约 1 mm,宽约 2 mm,边缘微波状;雄蕊着生于花冠筒中部,花丝披针形,宽 2~3 mm;花药长 3 mm;子房狭椭圆形,长 1.2~1.4 cm,子房柄长 0.8~1.2 cm,基部具 5 枚腺体;花柱线形,柱头长圆形,2 裂。花期 9 月。

与穗序蔓龙胆 *C. speciosa* Wall. 区别在于叶较大,长 7~12 cm,宽 4.5~6.5 cm;花梗较短,长 2~8 mm;萼裂片披针形或卵状披针形,长 3.5~6 mm;花药较短,长 3 mm。

## 2 裂膜蔓龙胆 新种 图 1: 5~7

***Crawfordia lobatilimba*** W. L. Cheng, sp. nov. TYPE: Xizang (Tibet 西藏), Nyngchi (林芝), alt. 2400 m, in broad leaf forest, 1996-10-18, W. L. Zheng (郑维列) 0967 (holotype, XZE-Herb. Inst. Plateau Ecol. Tibet). Fig. 1: 5~7

Species calycis lamellis internis lobatis lobis parvis semicircularibus vel indivisis et atroglandulifero-serratis a congeneribus diversa. Habitu *C. speciosae* Wall. affinis, sed tubo calycis longiore 1.3~1.6 cm longo, lobis lanceolatis vel ovato-lanceolatis 5~7 mm longis 2~3 mm latis differt.

Herba perennis volubilis, omnino glabra. Caulis viridis, purpureo-suffusus, internodiis 10~16 cm longis. Folia ovata, 3.5~5.7 cm longa, 1.3~3.3 cm lata, vel majora, apice acuminata, basi rotundata, margine crispa integra anguste membranacea; nervi basales 3~5 (~7) nervis marginalibus debioribus; petioli 4~7 cm longi, basi amplexicaules. Flores solitarii vel cymae 3-florae, axillares; pedicelli 1~8 cm longi, bracteolati; bracteolae parvae vel foliiformes, vel nullae; tubus calycis latere uno ad medium dehiscens, 1.3~1.6 cm longus, lobis lanceolatis vel ovato-lanceolatis 5~7 mm longis 1~2 mm latis, sinubus acutis, lamellis internis lobatis, lobis semiorbicularibus, lobulis vulgo bilobulatis apice atroglandulosis, vel lamellis internis indivisis margine atroglanduloso-serratis; corolla purpurea, campanulata, 3.5~4 cm longa, lobis oblique ovato-triangularis 3~4 mm longis 5~7 mm latis, plis oblique semicircularibus 1 mm longis 2~3 mm latis margine subintegris; stamina medio tubi corollae inserta, filamentis 15~17 mm longis utrinque subaequilate alatis, alis c. 1 mm latis, antheris sagittatis 3~4 mm longis; ovarium anguste ellipsoideum, 1.8~2 cm longum, stipite 1.3~1.5 cm longo basi 5-glandulifero; stylus c. 3 mm longus; stigma c. 1 mm longum, 2-lobatum. Capsula vulgo exserta. Florencens in Oct.

多年生缠绕草本,全株无毛。茎带紫色,节间长 10~16 cm。叶卵形,长 3.5~5.7 cm,宽 1.3~3.3 cm,或更大,先端渐尖,基部圆形;叶脉 3~5 (~7),边脉较弱,边缘狭膜质,皱波状;叶柄长 4~7 mm,抱茎。单花或 3 花呈聚伞花序,腋生。花梗长 1~8 cm;有小苞片或缺,细小或叶状;花萼筒一侧开裂至中部,长 1.3~1.6 cm,先端内面具开裂成近半圆形的萼内膜,小裂片常稍 2 裂,先端具暗色腺点,或萼内膜不裂而具暗色腺齿;萼裂片

披针形或卵状披针形,长约 1 mm,宽 2~3 mm,弯缺尖;花冠紫色,钟形,长 3.5~4 cm,裂片卵状三角形,长 3~4 mm,宽 5~7 mm,偏斜,褶偏斜,半圆形,长约 1 mm,宽 2~3 mm,近全缘;雄蕊着生于花冠筒中部,花丝长 15~17 mm,两边具近等宽的翅,翅宽约 1 mm,花药箭形,长 3~4 mm;子房长椭圆形,两端渐狭,长约 1.8~2 cm,柄长约 1.3~1.5 mm,基部具 5 枚腺体,花柱长约 3 mm,柱头长约 1 mm,2 裂。蒴果常伸出花冠。花期 10 月。

本种以萼内膜裂成近半圆形的裂片或不裂而具暗色腺齿,与本属其它种类均不同。体态近 *C. speciosa* Wall.,但本种萼筒较长,1.3~1.6 cm,萼裂片披针形或卵状披针形,长 5~7 mm,宽 2~3 mm 而不同。

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